



SAFETY DATA SHEET

1. Identification

Product identifier	ENO REGULAR LOCAL
Other means of identification	Not available.
Synonym(s)	ENO NORMAL MEZCLA / ENO NORMAL MEZCLA PORTUGAL JBL * SODIUM BICARBONATE, FORMULATED PRODUCT
Recommended use	Medicinal Product

This safety data sheet is written to provide health, safety and environmental information for people handling this formulated product in the workplace. It is not intended to provide information relevant to medicinal use of the product. In this instance patients should consult prescribing information/package insert/product label or consult their pharmacist or physician. For health and safety information for individual ingredients used during manufacturing, refer to the appropriate safety data sheet for each ingredient.

Recommended restrictions No other uses are advised.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

GlaxoSmithKline US
5 Moore Drive
Research Triangle Park, NC 27709 USA
US General Information (normal business hours): +1-888-825-5249
Email Address: msds@gsk.com
Website: www.gsk.com
EMERGENCY PHONE NUMBERS -
TRANSPORT EMERGENCIES::
US / International toll call +1 703 527 3887
available 24 hrs/7 days; multi-language response

2. Hazard(s) identification

Classified hazards

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Label elements

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

Hazard(s) not otherwise classified (HNOC)

Exempt from requirements - product regulated as a medicinal product, cosmetic product or medical device.

3. Composition/information on ingredients

Mixtures

Hazardous components			
Chemical name	Common name and synonyms	CAS number	%
SODIUM BICARBONATE	426 (GW ACN) BAKING SODA BICARBONATE OF SODA CARBONIC ACID MONOSODIUM SALT CARBONIC ACID SODIUM SALT (1:1) MONOSODIUM CARBONATE MONOSODIUM HYDROGEN CARBONATE RTECS VZ0950000 SODIUM ACID CARBONATE SODIUM CARBONATE (Na(HCO ₃)) SODIUM HYDROGEN CARBONATE	144-55-8	45.0 - 48.0
CITRIC ACID ANHYDROUS	BETA-HYDROXYTRICARBALLYLIC ACID ANHYDROUS CITRIC ACID 2-HYDROXY-1,2,3-PROPANETRICARBOXY ACID CITIRIC ACID	77-92-9	43.0 - 45.0

Hazardous components			
Chemical name	Common name and synonyms	CAS number	%
SODIUM CARBONATE	CARBONIC ACID, DISODIUM SALT BISODIUM CARBONATE CALCINED SODA CARBONIC ACID SODIUM SALT CARBONIC ACID SODIUM SALT (1:2) DISODIUM CARBONATE NA-X SODA SODA ASH POS COLOR BLEACH NEUTRALIZER POWDER (VISUAL GRAPHICS CORP) OHS21080 RTECS VZ4050000 153 (GW ACN) CARBONATE DE SODIUM CARBONATO DE SODIO CARBONATO DE SÓDIO NATRIUMCARBONAAT NATRIUMCARBONAT NATRIUMKARBONAATTI NATRIUMKARBONAT SODIO CARBONATO SODIUM CARBONATE ANHYDROUS	497-19-8	10
Other components below reportable levels			1.0

4. First-aid measures

Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If breathing is difficult, trained personnel should give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.
Skin contact	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Remove and isolate contaminated clothing and shoes. Get medical attention immediately.
Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	Call a physician or poison control center immediately. Only induce vomiting at the instruction of medical personnel. Never give anything by mouth to an unconscious person.
Most important symptoms/effects, acute and delayed	Not available.
Indication of immediate medical attention and special treatment needed	No specific antidotes are recommended. Treat according to locally accepted protocols. For additional guidance, refer to the local poison control information centre.
General information	Pre-placement and periodic health surveillance is not usually indicated. The final determination of the need for health surveillance should be determined by local risk assessment.

5. Fire-fighting measures

Suitable extinguishing media	Water. Dry powder. Foam.
Unsuitable extinguishing media	Carbon dioxide (CO2).
Specific hazards arising from the chemical	Toxic, corrosive or flammable thermal decomposition products are expected when the product is exposed to fire.
Special protective equipment and precautions for firefighters	Since toxic, corrosive or flammable vapours might be evolved from fires involving this material, self contained breathing apparatus and full protective equipment are recommended for firefighters.
Fire-fighting equipment/instructions	For single units (packages): No special requirements needed. For larger amounts (multiple packages/pallets) of product: Since toxic, corrosive or flammable vapours might be evolved from fires involving this product and associated packaging, self contained breathing apparatus and full protective equipment are recommended for firefighters. If possible, contain and collect firefighting water for later disposal.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Wear protective clothing and equipment consistent with the degree of hazard.
Methods and materials for containment and cleaning up	Collect and place it in a suitable, properly labelled container for recovery or disposal. No specific decontamination or detoxification procedures have been identified for this product.

Environmental precautions For large spills, take precautions to prevent entry into waterways, sewers, or surface drainage systems.

7. Handling and storage

Precautions for safe handling Follow all MSDS/label precautions even after container is emptied because they may retain product residues.

Conditions for safe storage, including any incompatibilities Room temperature - normal conditions. Keep away from heat and sources of ignition. Store in tightly closed original container in a well-ventilated place.

8. Exposure controls/personal protection

Occupational exposure limits

GSK

Components

Components	Type	Value
CITRIC ACID ANHYDROUS (CAS 77-92-9)	8 HR TWA	5000 mcg/m3
	OHC	1
SODIUM BICARBONATE (CAS 144-55-8)	8 HR TWA	5000 mcg/m3
	OHC	1
SODIUM CARBONATE (CAS 497-19-8)	8 HR TWA	5000 mcg/m3
	OHC	1

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls No special engineering controls are required.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety glasses with side shields if eye contact is possible.

Hand protection None required for the normal handling of this material.

Other None known.

Respiratory protection No personal respiratory protective equipment normally required.

Thermal hazards Not available.

General hygiene considerations Wash hands and arms thoroughly after handling.

9. Physical and chemical properties

Appearance

Physical state Solid.

Form Powder.

Color Not available.

Odor Not available.

Odor threshold Not available.

pH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling range Not available.

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not available.

Flammability limit - upper (%) Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density	Not available.
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

Other information

Dust explosion properties

St class	No studies have been conducted.
Minimum ignition energy (MIE) - dust cloud	No studies have been conducted.

Train fire	No studies have been conducted.
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10. Stability and reactivity

Reactivity	Not available.
Chemical stability	This product is expected to be stable.
Possibility of hazardous reactions	Not available.
Conditions to avoid	None for normal handling of this product.
Incompatible materials	Not available.
Hazardous decomposition products	Toxic, corrosive or flammable thermal decomposition products are expected when the product is exposed to fire.

11. Toxicological information

Information on likely routes of exposure

Ingestion	Not expected to be toxic following ingestion.
Inhalation	None known.
Skin contact	None known.
Eye contact	May be irritating to eyes.

Symptoms related to the physical, chemical and toxicological characteristics	None known.
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Information on toxicological effects

Acute toxicity	Not expected to be toxic following ingestion.
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Components	Species	Test Results
CITRIC ACID ANHYDROUS (CAS 77-92-9)		
Acute		
<i>Oral</i>		
LD50	Rat	3000 mg/kg
SODIUM BICARBONATE (CAS 144-55-8)		
Acute		
<i>Oral</i>		
LD50	Rat	4220 mg/kg
SODIUM CARBONATE (CAS 497-19-8)		
Acute		
<i>Inhalation</i>		
LC50	Rat	2.3 mg/l
<i>Oral</i>		
LD50	Rat	6600 mg/kg
Skin corrosion/irritation	None known.	
Serious eye damage/eye irritation	May be irritating to eyes.	
Respiratory sensitization	None known.	
Skin sensitization	None known.	

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Germ cell mutagenicity	Not expected to be genotoxic under occupational exposure conditions.
Carcinogenicity	None known.
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction
Specific target organ toxicity - single exposure	None known.
Specific target organ toxicity - repeated exposure	None known.
Aspiration hazard	No studies have been conducted.
Further information	None known.

12. Ecological information

Ecotoxicity No information is available about the potential of this material to produce adverse environmental effects. Local regulations and procedures should be consulted prior to environmental release.

Components	Species	Test Results
CITRIC ACID ANHYDROUS (CAS 77-92-9)		
Aquatic		
<i>Acute</i>		
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)
		120 mg/l, 72 hours, Static test
Fish	EC50	Bluegill sunfish (Adult <i>Lepomis macrochirus</i>)
		1516 mg/l, 96 hours, Static test
		Golden ide/orfe (Adult <i>Leuciscus idus</i>)
		440 - 760 mg/l, 96 hours, Static test
Microtox	EC50	Microtox
		14 mg/l, 15 minutes
SODIUM BICARBONATE (CAS 144-55-8)		
Aquatic		
<i>Acute</i>		
Algae	EC50	Algae (<i>Nitscheria linearis</i>)
		650 mg/l, 5 days
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)
		2350 mg/l, 48 hours, Static test
Fish	EC50	Bluegill sunfish (Adult <i>Lepomis macrochirus</i>)
		8250 - 9000 mg/l, 96 hours, Static test
		Mosquito fish (Adult <i>Gambusia affinis</i>)
		7550 mg/l, 96 hours, Static test
SODIUM CARBONATE (CAS 497-19-8)		
Aquatic		
<i>Acute</i>		
Algae	EC50	Green algae (<i>Selenastrum capricornutum</i>)
		> 800 mg/l
Crustacea	EC50	Water flea (<i>Daphnia magna</i>)
		265 mg/l, 48 hours, Static test
Fish	EC50	Bluegill sunfish (Adult <i>Lepomis macrochirus</i>)
		300 mg/l, 96 hours, Static test
		Fathead minnow (Juvenile <i>Pimephales promelas</i>)
		< 850 mg/l, 96 hours, Static test
		Mosquito fish (Adult <i>Gambusia affinis</i>)
		740 mg/l, 96 hours, Static test

Persistence and degradability Not available.

Bioaccumulative potential Not available.

Mobility in soil Not available.

Mobility in general

Volatility

Henry's law

CITRIC ACID ANHYDROUS

< 0 atm m³/mol Calculated, 25 °C

Other adverse effects Not available.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport information

DOT	Not regulated as a dangerous good.
IATA	Not regulated as a dangerous good.
IMDG	Not regulated as a dangerous good.
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	MARPOL Annex II applies to liquids used in a ship's operation that pose a threat to the marine environment. These materials may not be transported in bulk.
General information	The SDS should accompany all shipments for reference in the event of spillage or accidental release. Only authorised persons trained and competent in accordance with appropriate national and international regulatory requirements may prepare dangerous goods for transport.

15. Regulatory information

US federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

SARA 304 Emergency release notification

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No
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SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Not regulated.

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

Not Listed.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date	08-05-2013
Revision date	08-05-2013
Version #	02
Further information	This material has not been assessed for HMIS or NFPA ratings. HMIS® is a registered trade and service mark of the NPCA.
References	GSK Hazard Determination
Disclaimer	The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create any warranty, express or implied. It is the responsibility of the user to determine the applicability of this information and the suitability of the material or product for any particular purpose.
Revision Information	Product and Company Identification: Synonyms Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties